

Sequences of the (+) strand

complete forms:

Seq.

GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC B11  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAGU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC G2  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUGC--ACGUACCACUGUCGGUUCAC E12  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACA--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC B7  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACG--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC A8  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACUUGUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC B12  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC E3  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGACCGGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC C12  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC C11  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC A3  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC F5  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC A12  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC F12  
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAAC--GUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC G5

GGAGCUCAGACUUDCACUCUG

DE.40F-Primer (Seq. ID No. 35)

CGUACCACUGUCGGUUCAC

DE.40R-Primer (rev. und  
compl.) (Seq. ID No. 36)

Primer moieties underlined and in bold

Fig. 13-1

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Seq. ID.

core forms:

CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	B11	8
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	G2	10
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	E12	12
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	B7	14
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	A8	16
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	B12	18
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	E3	20
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	C12	22
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	C11	24
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	A3	26
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	F5	28
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	A12	30
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	F12	32
CGUGAGGGCAUAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	G5	34

Fig. 13 -2

## Sequences derived from the RNA selection (round 13)

## Seq. RNA round 13

## ID. group1

1.1 main clone

38 'SOT-R04-DR13-E5

GGAGCTCAGACTTCACCTCGTGCCTGAGGCAGACG-TAAGACCGAAGGTAACCATTCCTACCCACGTAACCACTGTCGGTTCCAC

## group2

2.1 main clone

39 'SOT-R04-DR13-A2

GGAGCTCAGACTTCACCTCGTGCCTGAGGCTAACG-TAAGACCGAAGGTAACCATTCCTACCCACGTAACCACTGTCGGTTCCAC

variations of 2.1

40 'SOT-R04-DR13-C4

GGAGCTCAGACTTCACCTCGTGCCTGAGGCTAACG-TAAGACCGAAGGTAACCATTCCTACCCACGTAACCACTGTCGGTTCCAC

## group3

3.1 main clone

41 'SOT-R04-DR13-C1

GGAGCTCAGACTTCACCTCGTGCCTGAGGTAATAAAC-TAATCCGAAGGTAACCAATCCTAC--ACGTACCACTGTCGGTTCCAC

## group4

4.1 main clone

42 'SOT-R04-DR13-G2

GGAGCTCAGACTTCACCTCGTGCCTACCGTTATAAGGGAGTCTTCGACACTGATGCCAGGCCACGTACCACTGTCGGTTCCAC

Fig. 22

## Sequences derived from the RNA selection (round 14)

## Seq. RNA round 14

## ID. group1

1.1 (main clone)

43 'SOT-R04-DR14-F7 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAGA--CGTAGACCGRAGGTAACCATTCCTACCACGTACCACCTGTCGGTTCCAC

variations of clone 1.1

1.2

44 'SOT-R04-DR14-C11 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAAA--CGTAGACCGRAGGTAACCATTCCTACCACGTACCACCTGTCGGTTCCAC

1.3

45 'SOT-R04-DR14-A8 GGAGCTCAGACTTCACCTCGTGGGTGAGGCTAA--CGTAGACCGRAGGTAACCATTCCTACCACGTACCACCTGTCGGTTCCAC

1.4

46 'SOT-R04-DR14-C12 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAAAACGTAGACCGRAGGTAACCATTCCTACCACGTACCACCTGTCGGTTCCAC

## group3

3.1 (main clone)

47 'SOT-R04-DR14-C7 GGAGCTCAGACTTCACCTCGTGGGTGAGGTAATAAAC--TAAATCCGAGGTAAACCAATCCTAACGTACCACCTGTCGGTTCCAC

variations of clone 3.1

1.2

48 'SOT-R04-DR14-E11 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAGTAATAACTT--AAGTCCGAGGTAAACCAATCCTAACGTACCACCTGTCGGTTCCAC

1.3

49 'SOT-R04-DR14-H11 GGAGCTCAGACTTCACCTCGTGGGTGAGGCATAATAAACTTG--AAGTCCGAGGTAAACCAATCCTAACGTACCACCTGTCGGTTCCAC

1.4

50 'SOT-R04-DR14-E8 GGAGCTCAGACTTCACCTCGTGGGTGAGGCATATAAACTTGAAGTCCGAGGTAAACCAATCCTAACGTACCACCTGTCGGTTCCAC

Fig. 23

## Sequences derived from the 2'F-RNA selection (round 14)

## Seq. 2'-F-RNA round 14

## ID. group1

## 1.1 (main clone)

51	'SOT-F03-DR14-G6	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCT-CATACGTCGCCGCAACGTACCACTGTCGGTTCCAC</u>
mutations of clone 1.1		
52	'SOT-F03-DR14-F2	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTCT--CATAGTGGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
53	'SOT-F03-DR14-F4.	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTCT---ATAGTGGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
54	'SOT-F03-DR14-D5	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTC-CATACGTCGCCGCAACGTACCACTGTCGGTTCCAC</u>
55	'SOT-F03-DR14-G3	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTC-CAAAACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
56	'SOT-F03-DR14-B5	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTT-CTC-CATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
57	'SOT-F03-DR14-C2	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTCTC-CATAGGTCGC--CAACGTACCACTGTCGGTTCCAC</u>
58	'SOT-F03-DR14-F3	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTT-CATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
59	'SOT-F03-DR14-B6	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGATTGAGACGTTTC---CATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
60	'SOT-F03-DR14-H1	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTTC-----ATAGTGGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
61	'SOT-F03-DR14-F6	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTT---CATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
62	'SOT-F03-DR14-B1	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGT--C---CATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
63	'SOT-F03-DR14-C1	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTCCATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>
64	'SOT-F03-DR14-H5	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTTC-CATACGTCGCCGCCGCAACGTACCACTGTCGGTTCCAC</u>

Seq. **group2**

ID. 2.1 (main clone)

65 'SOT-F03-DR14-G5 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCTGCCGACGTCAGTGGGCACGAGATACGTACCCACTGTCGGTTCCAC

variations of clone 2.1

2.2

66 'SOT-F03-DR14-D3 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCTGCTGACCGTCAGTGGGCACGAGATACGTACCCACTGTCGGTTCCAC

2.3

67 'SOT-F03-DR14-H2 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCT-CCGACCGTCAGTGGGCACGAGATACGTACCCACTGTCGGTTCCAC

2.4

68 'SOT-F03-DR14-D1 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCT-CAGACCGTCAGTGGGCACGAGATACGTACCCACTGTCGGTTCCAC

2.5

69 'SOT-F03-DR14-A2 GGAGCTCAGACTTCACCTCGTGCCTTT-TGTTAGCT-CAGACCGTCAGTGGGCACGAGATACGTACCCACTGTCGGTTCCAC

2.6

70 'SOT-F03-DR14-G2 GGAGCTCAGACTTCACCTCGTGCCTTTCT-AGCTCTTACCGACCGTGGGCACGAG-ACGTACCCACTGTCGGTTCCAC**group3**

3.1 main clone

71 'SOT-F03-DR14-H6 GGAGCTCAGACTTCACCTCGTGCCTTTATTTGTAGGAGCTTGAGCCGACACTGGCAGGTACCCACTGTCGGTTCCAC

Fig. 24-2:

## Sequences derived from the 2'F-RNA selection (round 15)

## Seq. 2'-F-RNA round 15

ID.	group1	
72	1.1 (main clone)	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTCT-CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-G10	
73	1.2	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTCT-CAAACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-G7	
74	1.3	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTC--CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-F10	
75	1.4	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTC-----ATGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-D9	
76	1.5	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTT---CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-F12	
77	1.6	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTT---CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-G12	
78	1.7	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTT-C--CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-H7	
79	1.8	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTC--CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-A11	
80	1.9	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTCT-CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-A8	
81	1.10	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTCTCCATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-F8	
82	1.11	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGGCGCTTCTTTCATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-C9	
83	1.12	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACCCAGACGTTTTC--CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-C12	
84	1.13	<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTTC--CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-F7	
85		<u>GGAGCTCAGACATTCACTCGTGGAAATAGGAATGACTCAGACGTTTTC--CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-A12	
	group2	
86	2.1	<u>GGAGCTCAGACATTCACTCGTGGCTTCTGTAGTGGCGACCGTCAGTGGCGCACGAGATACGTACCACTGTCTGGTTCCAC</u>
	'SOT-F03-DR15-C7	

Fig. 25: